

Notice of Allowability

Application No.

09/156,461

Examiner

Gevell Selby

Applicant(s)

ZHANG ET AL.

Art Unit

2615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 9/19/05.
2. ☒ The allowed claim(s) is/are 9-32 renumbered as claims 1-24.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Murphy (34,225) on 12/01/05.

The application has been amended as follows:

Cancel claims 1-8.

Allowable Subject Matter

2. Claims 9-32 are allowed.
3. The following is an examiner's statement of reasons for allowance:

In regard to claims 9-11, 21, 24, and 27, the prior art does not disclose an active matrix display device with the combination of limitation of the claimed invention, specifically including the limitations of:

a photoelectric conversion layer and an upper electrode common to the plurality of light receiving pixels; wherein the upper electrode is connected to a lead-out wiring on a light incident side; and wherein the lead-out wiring is formed by a starting firm different from that of the upper electrode, as claimed in claim 9.

In regard to claims 12-16, 22, 25, and 28, the prior art does not disclose an active matrix display device with the combination of limitation of the claimed invention, specifically including the limitations of:

wherein the light receiving unit includes a plurality of lower electrodes separated from each other at respective of the light receiving pixels and formed by a starting film the same as that of the electrode layer, a photoelectric conversion layer and an upper electrode common to the plurality of light receiving pixels; wherein the upper electrode is connected to a lead-out wiring on a light incident side; and wherein the lead-out wiring is formed by a starting film different from that of the upper electrode, as claimed in claim 12.

In regard to claims 17-20, 23, 26 and 29, the prior art does not disclose an active matrix display device with the combination of limitation of the claimed invention, specifically including the limitations of:

active elements formed over the substrate and connected to the signal lines and the select lines; a first insulating film over the active elements; an electrode layer formed over the first insulating film and covering at least the signal lines and the select lines; a second insulating film formed over the electrode layer; and pixel electrodes formed over the second insulating film and connected to the active elements; the first insulating film over the signal reading unit; a plurality of lower electrodes formed over the first insulating film, formed by a starting film the same as that of the electrode layer and separated from each other at respective of the light receiving pixels; a photoelectric conversion layer formed

over the lower electrodes; an upper electrode formed over the photoelectric conversion layer and common to the plurality of light receiving pixels; the second insulating film over the upper electrode; and a lead-out wiring formed over the second insulating film and connected to the upper electrode; wherein the upper electrode is formed by a starting film the same as that of the pixel electrodes, as claimed in claim 17.

In regard to claims 30-32, the prior art does not disclose an active matrix display device with the combination of limitation of the claimed invention, specifically including the limitations of:

A photoelectric conversion layer and an upper electrode common to the light receiving pixels; wherein the lower electrodes are formed by a starting film the same as that of the electrode layer; and wherein the pixel electrodes are formed by a starting film different from that of the upper electrode, as claimed in claim 30.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gevell Selby whose telephone number is 571-272-7369. The examiner can normally be reached on 8:00 A.M. - 5:30 PM (every other Friday off).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on 571-272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gvs



DAVID OMETZ
SUPERVISORY PATENT EXAMINER